Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	10	("5869819" "5761662" "5754939" "5692073" "5661506" "5051736" "5477012" "5652412" "5692073" "5852434" "6076734").pn.	US-PGPUB; USPAT	OR	OFF	2005/03/02 07:39
S2	1	("20020152245").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/09/28 11:35
S3	11	("20020152245" "6584480" "20020095443" "6449616" "6643663" "20010047373" "6301574" "5181162" "6381592" "5907837" "5761662").pn.	US-PGPUB; USPAT	OR	OFF	2004/09/15 08:02
S4	1	("6230173").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/09/15 08:03
S5	1	("5995976").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/09/15 08:03
S6	2	("9847083").PN.	USOCR; EPO; DERWENT	OR	OFF	2004/09/15 08:03
S7	6	(US-5907837-$ or US-5761662-$ or US-5181162-$ or US-6230173-$ or US-5995976-$).did. or (US-20010047373-$).did.	US-PGPUB; USPAT	OR	OFF	2004/09/15 08:05
S8	110	marking adj nib	US-PGPUB; USPAT	OR	OFF	2004/09/28 14:27
S9	33366	sensing adj device	US-PGPUB; USPAT	OR	OFF	2004/09/15 12:24
S10	36	(marking adj nib) same (sensing adj device)	US-PGPUB; USPAT	OR	OFF	2004/09/28 14:25
S11	49	("5995976" "6449616" "6138151" "6029182" "6064469" "5917915" "6052145" "6119109" "6233734" "4562339" "5884458" "6322262" "5630103" "5754172" "5845262" "5884140" RE38529 "5978768" "5419541" "6370510" "5752238" "5724521" "5774868" "5838323" "5867164" "5949411" "6041316" "6144944" "6389541" "6450407" "5295236" "4253157" "5239759" "5491785" "5696965" "5710884" "5717923" "5754787" "5768521" "5781202" "5913212" "5926824" "5938727" "6008819" "6016509" "6021307" "6052122" "6053855" "6061479" "6061479").pn.	US-PGPUB; USPAT	OR	OFF	2004/09/28 11:35

S12	48	("6151600" "6154788" "6188869" "6201771" "6219355" "6219355" "6246441" "6249282" "6523176" "6741268" "6765559" "4397229" "5464095" "5601190" "6409811" "6470136" "4847890" "6173267" "5197121" "6219788" "6219788" "4132348" "4349346" "4520958" "4532554" "4957311" "5340017" "5506902" "6005560" "6104389" "6535889" "6557006" "5451764" "5452374" "5545890" "5854854" "6101945" "6152442" "6417969" "6442625" "6728794" "4980253" "4249187" "4279012" "4361848" "4449249" "4559563" "4630844" "4824119" "4862281").pn.	US-PGPUB; USPAT	OR	OFF	2004/09/28 11:35
S13	8	(US-5761662-$ or US-5907837-$ or US-6230173-$ or US-5181162-$ or US-5995976-$ or US-6138151-$ or US-6029182-$).did. or (US-20010047373-$).did.	US-PGPUB; USPAT	OR	OFF	2004/09/28 14:10
S14	112680	format near5 (data or information)	US-PGPUB; USPAT	OR	OFF	2004/09/28 14:11
S15	5	((US-5761662-$ or US-5907837-$ or US-6230173-$ or US-5181162-$ or US-5995976-$ or US-6138151-$ or US-6029182-$).did. or (US-20010047373-$).did.) and (format near5 (data or information))	US-PGPUB; USPAT	OR	OFF	2004/09/28 14:11
S16	19419	hotspot$1 or (hot adj spot$1)	US-PGPUB; USPAT	OR	OFF	2004/09/28 14:11
S17	0	(((US-5761662-$ or US-5907837-$ or US-6230173-$ or US-5181162-$ or US-5995976-$ or US-6138151-$ or US-6029182-$).did. or (US-20010047373-$).did.) and (format near5 (data or information))) and (hotspot$1 or (hot adj spot$1))	US-PGPUB; USPAT	OR	OFF	2004/09/28 14:11
S18	0	((US-5761662-$ or US-5907837-$ or US-6230173-$ or US-5181162-$ or US-5995976-$ or US-6138151-$ or US-6029182-$).did. or (US-20010047373-$).did.) and (hotspot$1 or (hot adj spot$1))	US-PGPUB; USPAT	OR	OFF	2004/09/28 14:12
S19	416350	link$1	US-PGPUB; USPAT	OR	OFF	2004/09/28 14:12

S20	5	(((US-5761662-$ or US-5907837-$ or US-6230173-$ or US-5181162-$ or US-5995976-$ or US-6138151-$ or US-6029182-$).did. or (US-20010047373-$).did.) and (format near5 (data or information))) and link$1	US-PGPUB; USPAT	OR	OFF	2004/09/28 14:12
S21	240682	mouse or pointer	US-PGPUB; USPAT	OR	OFF	2004/09/28 14:12
S22	4	((((US-5761662-$ or US-5907837-$ or US-6230173-$ or US-5181162-$ or US-5995976-$ or US-6138151-$ or US-6029182-$). did. or (US-20010047373-$).did.) and (format near5 (data or information))) and link$1) and (mouse or pointer)	US-PGPUB; USPAT	OR	OFF	2004/09/28 14:13
S23	72319	newspaper$1 or magazine$1	US-PGPUB; USPAT	OR	OFF	2004/09/28 14:13
S24	4	(((((US-5761662-$ or US-5907837-$ or US-6230173-$ or US-5181162-$ or US-5995976-$ or US-6138151-$ or US-6029182-$). did. or (US-20010047373-$).did.) and (format near5 (data or information))) and link$1) and (mouse or pointer)) and (newspaper$1 or magazine$1)	US-PGPUB; USPAT	OR	OFF	2004/09/28 14:14
S25	319104	sensing	US-PGPUB; USPAT	OR	OFF	2004/09/28 14:15
S26	0	((US-5761662-$ or US-5907837-$ or US-6230173-$ or US-5181162-$ or US-5995976-$ or US-6138151-$ or US-6029182-$).did. or (US-20010047373-$).did.) and sensing	US-PGPUB; USPAT	OR	OFF	2004/09/28 14:15
S27	3057	editorial	US-PGPUB; USPAT	OR	OFF	2004/09/28 14:15
S28	4	((((((US-5761662-$ or US-5907837-$ or US-6230173-$ or US-5181162-$ or US-5995976-$ or US-6138151-$ or US-6029182-$). did. or (US-20010047373-$).did.) and (format near5 (data or information))) and link$1) and (mouse or pointer)) and (newspaper$1 or magazine$1)) and editorial	US-PGPUB; USPAT	OR	OFF	2004/09/28 14:16
S29	36673	advertising	US-PGPUB; USPAT	OR	OFF	2004/09/28 14:16

S30	2	(((((((US-5761662-$ or US-5907837-$ or US-6230173-$ or US-5181162-$ or US-5995976-$ or US-6138151-$ or US-6029182-$). did. or (US-20010047373-$).did.) and (format near5 (data or information))) and link$1) and (mouse or pointer)) and (newspaper$1 or magazine$1)) and editorial) and advertising	US-PGPUB; USPAT	OR	OFF	2004/09/28 14:16
S31	4093	demographics	US-PGPUB; USPAT	OR	OFF	2004/09/28 14:17
S32	0	((US-5761662-$ or US-5907837-$ or US-6230173-$ or US-5181162-$ or US-5995976-$ or US-6138151-$ or US-6029182-$).did. or (US-20010047373-$).did.) and demographics	US-PGPUB; USPAT	OR	OFF	2004/09/28 14:17
S33	964	(newspaper$1 or magazine$1) and demographics	US-PGPUB; USPAT	OR	OFF	2004/09/28 14:17
S34	27079	HTML	US-PGPUB; USPAT	OR	OFF	2004/09/28 14:17
S35	0	((US-5761662-$ or US-5907837-$ or US-6230173-$ or US-5181162-$ or US-5995976-$ or US-6138151-$ or US-6029182-$).did. or (US-20010047373-$).did.) and (((newspaper$1 or magazine$1) and demographics) and HTML)	US-PGPUB; USPAT	OR	OFF	2004/09/28 14:17
S36	393	((newspaper$1 or magazine$1) and demographics) and HTML	US-PGPUB; USPAT	OR	OFF	2004/09/28 14:18
S37	756	(715/530).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/09/28 14:18
S38	1657	(715/513).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/09/28 14:18
S39	2341	((715/530).CCLS.) or ((715/513). CCLS.)	US-PGPUB; USPAT	OR	OFF	2005/08/02 08:34
S40	4	(((newspaper$1 or magazine$1) and demographics) and HTML) and (((715/530).CCLS.) or ((715/513).CCLS.))	US-PGPUB; USPAT	OR	OFF	2004/09/28 14:20
S41	36390	program adj code	US-PGPUB; USPAT	OR	OFF	2004/09/28 14:20
S42	567570	print$3	US-PGPUB; USPAT	OR	OFF	2004/09/28 14:20
S43	31071	invisibl$2	US-PGPUB; USPAT	OR	OFF	2004/09/28 14:21

S44	0	(program adj code) same print$3 same invisibl$2	US-PGPUB; USPAT	OR	OFF	2004/09/28 14:21
S45	1529	(program adj code) same print$3	US-PGPUB; USPAT	OR	OFF	2004/09/28 14:21
S46	34	(program adj code) same invisibl$2	US-PGPUB; USPAT	OR	OFF	2004/09/28 14:23
S47	4	(program adj code) same invisibl$2 same writ$3	US-PGPUB; USPAT	OR	OFF	2004/09/28 14:24
S48	0	(marking adj nib) same (sensing adj device) same interface	US-PGPUB; USPAT	OR	OFF	2004/09/28 14:27
S49	665389	computer	US-PGPUB; USPAT	OR	OFF	2004/09/28 14:27
S50	113	(marking adj nib)	US-PGPUB; USPAT	OR	OFF	2004/09/28 14:27
S51	63	computer and ((marking adj nib))	US-PGPUB; USPAT	OR	OFF	2004/09/28 14:27
S52	9	(US-5761662-$ or US-5907837-$ or US-5181162-$ or US-6230173-$ or US-5995976-$ or US-6138151-$ or US-6029182-$ or US-6760902-$).did. or (US-20010047373-$).did.	US-PGPUB; USPAT	OR	OFF	2004/09/29 07:19
S53	3057	editorial	US-PGPUB; USPAT	OR	OFF	2004/09/29 07:19
S54	6	((US-5761662-$ or US-5907837-$ or US-5181162-$ or US-6230173-$ or US-5995976-$ or US-6138151-$ or US-6029182-$ or US-6760902-$).did. or (US-20010047373-$).did.) and editorial	US-PGPUB; USPAT	OR	OFF	2004/09/29 07:22
S55	36673	advertising	US-PGPUB; USPAT	OR	OFF	2004/09/29 07:22
S56	5	((US-5761662-$ or US-5907837-$ or US-5181162-$ or US-6230173-$ or US-5995976-$ or US-6138151-$ or US-6029182-$ or US-6760902-$).did. or (US-20010047373-$).did.) and advertising	US-PGPUB; USPAT	OR	OFF	2004/09/29 07:22
S57	4093	demographics	US-PGPUB; USPAT	OR	OFF	2004/09/29 07:23
S58	732	advertising same demographics	US-PGPUB; USPAT	OR	OFF	2004/09/29 07:28
S59	72319	newspaper$1 or magazine$1	US-PGPUB; USPAT	OR	OFF	2004/09/29 07:23

S60	0	((US-5761662-$ or US-5907837-$ or US-5181162-$ or US-6230173-$ or US-5995976-$ or US-6138151-$ or US-6029182-$ or US-6760902-$).did. or (US-20010047373-$).did.) and ((advertising same demographics) and (newspaper$1 or magazine$1))	US-PGPUB; USPAT	OR	OFF	2004/09/29 07:23
S61	355	(advertising same demographics) and (newspaper$1 or magazine$1)	US-PGPUB; USPAT	OR	OFF	2004/09/29 07:24
S62	27079	HTML	US-PGPUB; USPAT	OR	OFF	2004/09/29 07:24
S63	216	((advertising same demographics) and (newspaper$1 or magazine$1)) and HTML	US-PGPUB; USPAT	OR	OFF	2004/09/29 07:24
S64	57	advertising same demographics same (newspaper$1 or magazine$1)	US-PGPUB; USPAT	OR	OFF	2004/09/29 07:31
S65	12349	user adj preference$1	US-PGPUB; USPAT	OR	OFF	2004/09/29 07:31
S66	2	advertising same (user adj preference$1) same (newspaper$1 or magazine$1)	US-PGPUB; USPAT	OR	OFF	2004/09/29 07:32
S67	69	advertising same (user adj preference$1) and (newspaper$1 or magazine$1)	US-PGPUB; USPAT	OR	OFF	2004/09/29 07:35
S68	2125872	identity or name	US-PGPUB; USPAT	OR	OFF	2004/09/29 07:36
S69	84	(identity or name) adj (newspaper$1 or magazine$1)	US-PGPUB; USPAT	OR	OFF	2004/09/29 07:36
S70	1	HTML same ((identity or name) adj (newspaper$1 or magazine$1))	US-PGPUB; USPAT	OR	OFF	2004/09/29 07:36
S71	0	HTML with ((identity or name) adj (newspaper$1 or magazine$1))	US-PGPUB; USPAT	OR	OFF	2004/09/29 07:36
S72	20	HTML and ((identity or name) adj (newspaper$1 or magazine$1))	US-PGPUB; USPAT	OR	OFF	2004/09/29 07:38
S73	0	(program adj cod$3) same ((identity or name) adj (newspaper$1 or magazine$1))	US-PGPUB; USPAT	OR	OFF	2004/09/29 07:39
S74	10	(program adj cod$3) and ((identity or name) adj (newspaper$1 or magazine$1))	US-PGPUB; USPAT	OR	OFF	2004/09/29 07:39
S75	21	code same ((identity or name) adj (newspaper$1 or magazine$1))	US-PGPUB; USPAT	OR	OFF	2004/09/29 07:42
S76	52224	identification same user	US-PGPUB; USPAT	OR	OFF	2004/09/29 07:42

S77	12	(US-5761662-$ or US-5907837-$ or US-5181162-$ or US-6230173-$ or US-5995976-$ or US-6138151-$ or US-6029182-$ or US-6760902-$ or US-6073372-$ or US-5845262-$).did. or (US-20010047373-$ or US-20010013009-$).did.	US-PGPUB; USPAT	OR	OFF	2004/09/29 08:06
S78	4	(identification same user) and ((US-5761662-$ or US-5907837-$ or US-5181162-$ or US-6230173-$ or US-5995976-$ or US-6138151-$ or US-6029182-$ or US-6760902-$ or US-6073372-$ or US-5845262-$).did. or (US-20010047373-$ or US-20010013009-$).did.)	US-PGPUB; USPAT	OR	OFF	2004/09/29 07:47
S79	21049	request$3 same print$3	US-PGPUB; USPAT	OR	OFF	2004/09/29 07:48
S80	3	((US-5761662-$ or US-5907837-$ or US-5181162-$ or US-6230173-$ or US-5995976-$ or US-6138151-$ or US-6029182-$ or US-6760902-$ or US-6073372-$ or US-5845262-$).did. or (US-20010047373-$ or US-20010013009-$).did.) and (request$3 same print$3)	US-PGPUB; USPAT	OR	OFF	2004/09/29 07:48
S81	6919	hotspot or (hot adj spot)	US-PGPUB; USPAT	OR	OFF	2004/09/29 08:06
S82	204	(newspaper$1 or magazine$1) and (hotspot or (hot adj spot))	US-PGPUB; USPAT	OR	OFF	2004/09/29 08:06
S83	55	(newspaper$1 or magazine$1) and (hotspot or (hot adj spot)) and HTML	US-PGPUB; USPAT	OR	OFF	2004/09/29 08:12
S84	9572	on-demand or (on adj demand) or on-request or (on adj request)	US-PGPUB; USPAT	OR	OFF	2004/09/29 08:12
S85	567570	print$3	US-PGPUB; USPAT	OR	OFF	2004/09/29 08:12
S86	11	(newspaper$1 or magazine$1) same (on-demand or (on adj demand) or on-request or (on adj request)) same print$3	US-PGPUB; USPAT	OR	OFF	2004/09/29 08:20

S87	0	((newspaper$1 or magazine$1) same (on-demand or (on adj demand) or on-request or (on adj request)) same print$3) same ((US-5761662-$ or US-5907837-$ or US-5181162-$ or US-6230173-$ or US-5995976-$ or US-6138151-$ or US-6029182-$ or US-6760902-$ or US-6073372-$ or US-5845262-$).did. or (US-20010047373-$ or US-20010013009-$).did.)	US-PGPUB; USPAT	OR	OFF	2004/09/29 08:13
S88	9647	multicast$3	US-PGPUB; USPAT	OR	OFF	2004/09/29 08:20
S89	503	pointcast$3	US-PGPUB; USPAT	OR	OFF	2004/09/29 08:20
S90	9	(newspaper$1 or magazine$1) same multicast$3 same pointcast$3	US-PGPUB; USPAT	OR	OFF	2004/09/29 08:25
S91	13	(US-5761662-$ or US-5907837-$ or US-5181162-$ or US-6230173-$ or US-5995976-$ or US-6138151-$ or US-6029182-$ or US-6760902-$ or US-6073372-$ or US-5845262-$ or US-5835923-$).did. or (US-20010047373-$ or US-20010013009-$).did.	US-PGPUB; USPAT	OR	OFF	2004/09/29 08:21
S92	0	((newspaper$1 or magazine$1) same multicast$3 same pointcast$3) and ((US-5761662-$ or US-5907837-$ or US-5181162-$ or US-6230173-$ or US-5995976-$ or US-6138151-$ or US-6029182-$ or US-6760902-$ or US-6073372-$ or US-5845262-$ or US-5835923-$).did. or (US-20010047373-$ or US-20010013009-$).did.)	US-PGPUB; USPAT	OR	OFF	2004/09/29 08:21
S93	1	("6400990").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/09/29 08:22
S94	123	multicast$3 same pointcast$3 same print$3	US-PGPUB; USPAT	OR	OFF	2004/09/29 08:27
S95	143	multicast$3 same pointcast$3	US-PGPUB; USPAT	OR	OFF	2004/09/29 08:30
S96	148	(multicast$3 or multi-cast$3) same (pointcast$3 or point-cast$3)	US-PGPUB; USPAT	OR	OFF	2004/09/29 08:31
S97	2	(multicast$3 or multi-cast$3) same (pointcast$3 or point-cast$3)	EPO; JPO; DERWENT	OR	OFF	2004/09/29 08:31

S98	13	(US-5761662-$ or US-5907837-$ or US-5181162-$ or US-6230173-$ or US-5995976-$ or US-6138151-$ or US-6029182-$ or US-6760902-$ or US-6073372-$ or US-5845262-$ or US-5835923-$).did. or (US-20010047373-$ or US-20010013009-$).did.	US-PGPUB; USPAT	OR	OFF	2004/09/29 08:40
S99	250386	binding	US-PGPUB; USPAT	OR	OFF	2004/09/29 08:41
S100	247419	pages	US-PGPUB; USPAT	OR	OFF	2004/09/29 08:41
S101	5502	binding same pages	US-PGPUB; USPAT	OR	OFF	2004/09/29 08:41
S102	0	((US-5761662-$ or US-5907837-$ or US-5181162-$ or US-6230173-$ or US-5995976-$ or US-6138151-$ or US-6029182-$ or US-6760902-$ or US-6073372-$ or US-5845262-$ or US-5835923-$).did. or (US-20010047373-$ or US-20010013009-$).did.) and (binding same pages)	US-PGPUB; USPAT	OR	OFF	2004/09/29 08:41
S103	31117	online	US-PGPUB; USPAT	OR	OFF	2004/09/29 08:41
S104	35	(newspaper$1 or magazine$1) and ((binding same pages) and online)	US-PGPUB; USPAT	OR	OFF	2004/09/29 08:41
S105	172	(binding same pages) and online	US-PGPUB; USPAT	OR	OFF	2004/09/29 08:46
S106	86461	marking	US-PGPUB; USPAT	OR	OFF	2004/09/29 08:47
S107	2293	marking and online	US-PGPUB; USPAT	OR	OFF	2004/09/29 08:47
S108	723	marking and online and HTML	US-PGPUB; USPAT	OR	OFF	2004/09/29 08:47
S109	2385471	device$1	US-PGPUB; USPAT	OR	OFF	2004/09/29 08:47
S110	5	(marking adj device$1) and online and HTML	US-PGPUB; USPAT	OR	OFF	2004/09/29 08:48
S111	1	("5860781").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/09/29 10:00
S116	1	("4864618").PN.	US-PGPUB; USPAT	OR	OFF	2005/03/02 08:53
S117	1908	(715/513).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/03/02 07:39
S118	969	(715/501.1).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/03/02 07:39

S119	2534	S117 or S118	US-PGPUB; USPAT	OR	OFF	2005/03/02 07:40
S120	8347	interactive with (visual or image$1)	US-PGPUB; USPAT	OR	OFF	2005/03/02 07:41
S121	484442	newspaper$1 or magazine$1 or publish$7	US-PGPUB; USPAT	OR	OFF	2005/03/02 07:41
S122	215	S120 same S121	US-PGPUB; USPAT	OR	OFF	2005/03/02 07:41
S123	8	S119 and S122	US-PGPUB; USPAT	OR	OFF	2005/03/02 08:21
S124	61	intelligent adj paper	US-PGPUB; USPAT	OR	OFF	2005/03/03 07:24
S125	168	marking adj nib	US-PGPUB; USPAT	OR	OFF	2005/03/03 07:24
S126	13	S124 and S125	US-PGPUB; USPAT	OR	OFF	2005/03/03 07:24
S127	1918	(715/513).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/03/03 07:41
S128	972	(715/501.1).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/03/03 07:41
S129	2547	S127 or S128	US-PGPUB; USPAT	OR	OFF	2005/03/03 07:42
S130	1	S124 and S129	US-PGPUB; USPAT	OR	OFF	2005/03/03 07:42
S131	15	(US-20010013009-$ or US-20010047373-$).did. or (US-5181162-$ or US-5761662-$ or US-5835923-$ or US-5845262-$ or US-5860781-$ or US-5907837-$ or US-5995976-$ or US-6029182-$ or US-6073372-$ or US-6138151-$ or US-6230173-$ or US-6760902-$ or US-6791571-$).did.	US-PGPUB; USPAT	OR	OFF	2005/03/04 07:10
S132	269	editorial adj content$1	US-PGPUB; USPAT	OR	OFF	2005/03/04 07:11
S133	0	S131 and S132	US-PGPUB; USPAT	OR	OFF	2005/03/04 07:11
S134	3346	editorial	US-PGPUB; USPAT	OR	OFF	2005/03/04 07:11
S135	6	S131 and S134	US-PGPUB; USPAT	OR	OFF	2005/03/04 07:11
S136	331	document same print$3 and periodical$1 and identifier and interactive	US-PGPUB; USPAT	OR	OFF	2005/08/02 08:34
S137	937	(715/530).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/08/02 08:36

S138	2128	(715/513).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/08/02 08:36
S139	2960	S137 or S138	US-PGPUB; USPAT	OR	OFF	2005/08/02 08:34
S140	4	S136 and S139	US-PGPUB; USPAT	OR	OFF	2005/08/02 08:34

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1 Interactive Editing Systems: Part II
Norman Meyrowitz, Andries van Dam
September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3
Full text available: pdf(9.17 MB) Additional Information: full citation, references, citings, index terms

2 Graphical interaction with heterogeneous databases
T. Catarci, G. Santucci, J. Cardiff
May 1997 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 6 Issue 2
Full text available: pdf(602.82 KB) Additional Information: full citation, abstract, citings, index terms

During the past few years our research efforts have been inspired by two different needs. On one hand, the number of non-expert users accessing databases is growing apace. On the other, information systems will no longer be characterized by a single centralized architecture, but rather by several heterogeneous component systems. In order to address such needs we have designed a new query system with both user-oriented and multidatabase features. The system's main components are an adaptive visua ...

3 Types and persistence in database programming languages
Malcolm P. Atkinson, O. Peter Buneman
June 1987 **ACM Computing Surveys (CSUR)**, Volume 19 Issue 2
Full text available: pdf(7.91 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Traditionally, the interface between a programming language and a database has either been through a set of relatively low-level subroutine calls, or it has required some form of embedding of one language in another. Recently, the necessity of integrating database and programming language techniques has received some long-overdue recognition. In response, a number of attempts have been made to construct programming languages with completely integrated database management systems. These lang ...

4 Document Formatting Systems: Survey, Concepts, and Issues
Richard Furuta, Jeffrey Scofield, Alan Shaw
September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3
Full text available: Additional Information:

pdf(5.36 MB) full citation, references, citings, index terms

5 GALILEO: a strongly-typed, interactive conceptual language
Antonio Albano, Luca Cardelli, Renzo Orsini
June 1985 **ACM Transactions on Database Systems (TODS)**, Volume 10 Issue 2

Full text available: pdf(2.35 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Galileo, a programming language for database applications, is presented. Galileo is a strongly-typed, interactive programming language designed specifically to support semantic data model features (classification, aggregation, and specialization), as well as the abstraction mechanisms of modern programming languages (types, abstract types, and modularization). The main contributions of Galileo are (a) a flexible type system to model database structure and semantic integrity constraints; (b) ...

6 Interactive *Ada*™ in the Arcturus environment
Thomas A. Standish
July 1983 **ACM SIGAda Ada Letters**, Volume III Issue 1

Full text available: pdf(585.44 KB) Additional Information: full citation, abstract, references

ARCTURUS offers an approach to the integrated use of compiled and interpreted Ada, template-driven Ada text editing, an Ada Program Design Language (PDL), Ada program performance measurement with color profiles, formatted printing of Ada programs with useful listing options, and automated stepwise refinement from Ada program designs written in Ada PDL into executable Ada. This paper has two objectives : (a) to provide a two page thumbnai l sketch of some interactive Ada capabilities in ...

7 Special issue on knowledge representation
Ronald J. Brachman, Brian C. Smith
February 1980 **ACM SIGART Bulletin**, Issue 70

Full text available: pdf(13.13 MB) Additional Information: full citation, abstract

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were twe useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Secon ...

8 Semantic database modeling: survey, applications, and research issues
Richard Hull, Roger King
September 1987 **ACM Computing Surveys (CSUR)**, Volume 19 Issue 3

Full text available: pdf(5.42 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Most common database management systems represent information in a simple record-based format. Semantic modeling provides richer data structuring capabilities for database applications. In particular, research in this area has articulated a number of constructs that provide mechanisms for representing structurally complex interrelations among data typically arising in commercial applications. In general terms, semantic modeling complements work on knowledge representation (in artificial int ...

9 Interactive modular programming in Scheme
Sho-Huan Simon Tung

January 1992 **ACM SIGPLAN Lisp Pointers , Proceedings of the 1992 ACM conference on LISP and functional programming**, Volume V Issue 1

Full text available: pdf(742.00 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents a module system and a programming environment designed to support interactive program development in Scheme. The module system extends lexical scoping while maintainig its flavor and benefits and supports mutually recursive modules. The programming environment supports dynamic linking, separate compilation, production code compilation, and a window-based user interface with multiple read-eval-print contexts.

10 Protection and the control of information sharing in multics

Jerome H. Saltzer

July 1974 **Communications of the ACM**, Volume 17 Issue 7

Full text available: pdf(1.75 MB) Additional Information: full citation, abstract, references, citings, index terms

The design of mechanisms to control the sharing of information in the Multics system is described. Five design principles help provide insight into the tradeoffs among different possible designs. The key mechanisms described include access control lists, hierarchical control of access specifications, identification and authentication of users, and primary memory protection. The paper ends with a discussion of several known weaknesses in the current protection mechanism design.

Keywords: Multics, access control, authentication, computer utilities, descriptors, privacy, proprietary programs, protected subsystems, protection, security, time-sharing systems, virtual memory

11 On-line Text Editing: A Survey

Andries van Dam, David E. Rice

September 1971 **ACM Computing Surveys (CSUR)**, Volume 3 Issue 3

Full text available: pdf(1.91 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper is a survey of current methods for the on-line creation and editing of computer programs and of ordinary manuscripts text. The characteristics of on-line editing systems are examined and examples of various implementations are described in three categories: program editors, text editors, and terminals with local editing facilities.

12 GAMS: a framework for the management of scientific software

Ronald F. Boisvert, Sally E. Howe, David K. Kahaner

December 1985 **ACM Transactions on Mathematical Software (TOMS)**, Volume 11 Issue 4

Full text available: pdf(2.83 MB) Additional Information: full citation, abstract, references, citings, index terms, review

The Guide to Available Mathematical Software (GAMS) provides a framework for both a scientist-end-user and a librarian-maintainer to deal with large quantities of mathematical and statistical software. This framework includes a classification scheme for mathematical and statistical software, a database system to manage information about this software, and both an on-line interactive consulting system and a printed catalog for providing users with access to this information. A description is ...

13 Distributed operating systems

Andrew S. Tanenbaum, Robbert Van Renesse

December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4

Full text available: pdf(5.49 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Distributed operating systems have many aspects in common with centralized ones, but they also differ in certain ways. This paper is intended as an introduction to distributed operating systems, and especially to current university research about them. After a discussion of what constitutes a distributed operating system and how it is distinguished from a computer network, various key design issues are discussed. Then several examples of current research projects are examined in some detail ...

14 Query evaluation techniques for large databases

Goetz Graefe

June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Full text available: pdf(9.37 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

15 An interactive high-level debugger for control-flow optimized programs

Polle T. Zellweger

March 1983 **Proceedings of the symposium on High-level debugging**, Volume 18 , 8 Issue 8 , 4

Full text available: pdf(1.10 MB) Additional Information: full citation, abstract, references

The transformations performed by an optimizing compiler have traditionally impeded interactive debugging in source language terms. A prototype system called Navigator has been developed for debugging optimized programs written in Cedar, an Algol-like language. Navigator can be used to monitor program execution flow in the presence of two optimizations: inline procedure expansion and cross-jumping (merging identical tails of code paths that join). This paper describes the problems that these two ...

16 The Assistant Mathematician: An interactive graphic programming language

Jean Saylor

October 1972 **ACM SIGPLAN Notices , Proceedings of the symposium on Two-dimensional man-machine communication**, Volume 7 Issue 10

Full text available: pdf(419.84 KB) Additional Information: full citation, abstract, index terms

This paper describes an experimental interactive graphics system called The Assistant Mathematician (TAM). TAM is a prototype computational aid for non-programmers, particularly engineers or scientists, that uses ordinary two-dimensional mathematical notation as its language. The system includes an arithmetic interpreter, incorporating an extensive set of arithmetic operators on constants, variables, and arrays, that accepts hand-printed graphic (two-dimensional) input from a data tablet an ...

17 Specification and implementation of exceptions in workflow management systems

Fabio Casati, Stefano Ceri, Stefano Paraboschi, Guiseppe Pozzi

September 1999 **ACM Transactions on Database Systems (TODS)**, Volume 24 Issue 3

Full text available: pdf(250.40 KB) Additional Information: full citation, abstract, references, citings, index terms

Although workflow management systems are most applicable when an organization follows standard business processes and routines, any of these processes faces the need for handling exceptions, i.e., asynchronous and anomalous situations that fall outside the normal control flow.In this paper we concentrate upon anomalous situtations that, although unusual, are part of the semantics of workflow applications, and should be specified and monitored coherently; in most real-life applica ...

Keywords: active rules, asynchronous events, exceptions, workflow management systems

18 Interactive Editing Systems: Part I

Norman Meyrowitz, Andries van Dam
September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

Full text available: pdf(3.08 MB) Additional Information: full citation, citings, index terms

19 A structural view of the Cedar programming environment

Daniel C. Swinehart, Polle T. Zellweger, Richard J. Beach, Robert B. Hagmann
August 1986 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 8 Issue 4

Full text available: pdf(6.32 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents an overview of the Cedar programming environment, focusing on its overall structure—that is, the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language, also called Cedar. Its primary purpose is to increase the productivity of programmers whose activities include experimental programming and the development of prototype software systems for a high-performance personal computer. T ...

20 The CHI '95 conference electronic publication: introduction to an experiment

Robert Mack, Linn Marks, Dave Collins, Keith Instone
April 1996 **ACM SIGCHI Bulletin**, Volume 28 Issue 2

Full text available: pdf(1.57 MB) Additional Information: full citation, index terms

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